

EXHIBIT 4. ESTIMATED LIFETIME RISKS OF PREMATURE CANCER DEATH
ASCRIPTABLE TO IN-FLIGHT COSMIC RADIATION EXPOSURE PER
100,000 FLYING CABIN OCCUPANTS

Type of Flight/Path	Cancer Risk per 100,000 Cabin Occupants	
	Cabin Crew Members Flying 960 Hours Per Year	Passengers Flying 480 Hours Per Year
<u>Domestic Flights¹</u>		
East-West (≤ 2 hours)	299 to 714	149 to 357
East-West (> 3 hours)	988 to 1,026	494 to 513
North-South (≤ 2 hours)	90 to 526	45 to 263
North-South (> 3 hours)	830	415
<u>International Flights²</u>		
Long, circumpolar (13 hours)	512	256
Medium, non-circumpolar (7 - 9 hours)	387 to 484	194 to 242
Short, non-circumpolar (≤ 3 hours)	220 to 291	110 to 146

¹ Assuming 20 years of flying.

² Assuming 10 years of flying.